CLAIMS

What is claimed is:

- 1 1. A method for accessing a destination computer behind a firewall, the
- 2 method comprising:
- 3 receiving a request from a destination computer behind the firewall, the
- 4 destination computer request demonstrating that the destination computer is
- 5 available to be accessed;
- 6 receiving a request from a remote browser to access the destination
- 7 computer;
- 8 associating the browser with the destination computer using the browser
- 9 request and a corresponding destination computer request; and
- providing communication between the browser and the destination
- 11 computer, the communication being in a form acceptable to the firewall.
- 1 2. The method of claim 1 further comprising activating the destination
- 2 computer upon receiving the browser request.
- 1 3. The method of claim 2 wherein activating the destination computer
- 2 further comprises:
- a notifying a user of an estimated waiting period of time required to
- 4 complete activation;

- 5 performing authentication of a user by the destination computer; and 6 redirecting the destination computer to an intermediary URL for further
- 7 communication with bridge proxy.
- 1 4. The method of claim 1 wherein the browser request is encrypted.
- 1 5. The method of claim 1 further comprising uniquely identifying the remote
- 2 browser based upon a combination of a source Internet address, an intermediary
- 3 Internet address and an intermediary port.
- 1 6. The method of claim 5 wherein the combination is used to identify a
- 2 session between the browser and the destination computer.
- 1 7. The method of claim 5 further comprising:
- 2 redirecting the browser to the intermediary Internet address and port; and
- assigning a listener to the intermediary Internet address and port.
- 1 9. The method of claim 1 wherein providing communication further
- 2 comprises:
- 3 receiving multiple browser requests using corresponding sockets, the
- 4 multiple browser requests being issued during a session between the browser
- 5 and an intermediary service;

- storing information identifying each of the multiple browser requests;

 sending the multiple browser requests to the destination computer in a

 form of an http response, the http response constituting a reply to the most

 recent of the destination computer requests;
- receiving a destination computer response to one of the multiple browser requests, the destination computer response being included in an http request; and
- sending the destination computer response to the browser using a corresponding socket.
- 1 10. The method of claim 9 wherein the destination computer response is
 2 encrypted.
- 1 11. The method of claim 9 wherein the identifying information includes
 2 session information and a socket number.
- 1 12. The method of claim 1 wherein the communication between the browser 2 and the destination computer is provided in a secure manner.
- 1 13. A method for providing access to a destination computer behind a
- 2 firewall, the method comprising:
- 3 sending destination computer requests to an intermediary service at

- 4 predetermined intervals, the destination computer requests demonstrating that
- 5 the destination computer is available to be accessed;
- 6 receiving a response from the intermediary service, the response
- 7 including a request of a remote browser to access the destination computer;
- 8 generating information in response to the browser request; and
- 9 sending the generated information to the intermediary service, the
- 10 generated information being sent in a form of a request.
- 1 14. The method of claim 13 wherein the destination computer requests are
- 2 http requests.
- 1 15. The method of claim 13 wherein the information generated by the
- 2 destination computer is included in an http request.
- 1 16. The method of claim 13 wherein each of the destination computer requests
- 2 establishes a TCP/IP connection with an intermediary service.
- 1 17. The method of claim 13 wherein each of the destination computer requests
- 2 includes an identifier of the destination computer and a time of a next request.
- 1 18. The method of claim 13 wherein predetermined intervals are periodically
- 2 redefined by the intermediary service.

- 1 19. The method of claim 13 further comprising authenticating a user of the
- 2 remote browser by the intermediary service and the destination computer.
- 1 20. The method of claim 13 further comprising:
- 2 receiving an intermediary URL from the intermediary server; and
- 3 sending a subsequent destination computer request to the intermediary
- 4 URL.
- 1 21. The method of claim 20 wherein the response of the intermediary service
- 2 constitutes a reply to the subsequent destination computer request.
- 1 22. The method of claim 13 wherein the response of the intermediary service
- 2 includes multiple browser requests.
- 1 23. The method of claim 22 comprising:
- 2 separating each of the multiple browser requests included in the response
- 3 of the intermediary service;
- 4 generating a response to each of the multiple browser requests; and
- sending the response to the intermediary service, the response being
- 6 included into an http request.
- 1 24. A system for accessing a destination computer behind a firewall, the

- 2 system comprising:
- 3 the destination computer issuing requests demonstrating that the
- 4 destination computer is available to be accessed;
- 5 a remote browser issuing a browser request to access the destination
- 6 computer;
- 7 an intermediary service coupled to the browser and the destination
- 8 computer via a network, the intermediary service receiving the destination
- 9 computer requests and the browser request, associating the browser with the
- destination computer using the browser request and a corresponding destination
- 11 computer request, and providing communication between the browser and the
- destination computer, the communication being in a form acceptable to the
- 13 firewall.
- 1 25. The system of claim 24 wherein the intermediary service is further
- 2 configured to coordinate activation of the destination computer upon receiving
- 3 the browser request.
- 1 26. The system of claim 24 wherein the intermediary service is further
- 2 configured to uniquely identify the remote browser based upon a combination of
- 3 a source Internet address, an intermediary Internet address and an intermediary
- 4 port.

- 1 27. The system of claim 24 wherein the intermediary service comprises a
- 2 bridge proxy configured to
- 3 receive multiple browser requests using corresponding sockets, the
- 4 multiple browser requests being issued during a session between the browser
- 5 and an intermediary service,
- store information identifying each of the multiple browser requests,
- 7 send the multiple browser requests to the destination computer in a form
- 8 of an http response, the http response constituting a reply to the most recent of
- 9 the destination computer requests,
- receive a destination computer response to one of the multiple browser
- 11 requests, the destination computer response being included in an http request,
- 12 and
- send the destination computer response to the browser using a
- 14 corresponding socket.
- 1 28. The system of claim 24 wherein the intermediary service provides secure
- 2 communication between the browser and the destination computer.
- 1 29. The system of claim 24 wherein the destination computer requests are http
- 2 requests.
- 1 30. The system of claim 24 wherein each of the destination computer requests

- 2 includes an identifier of the destination computer and a time of a next request.
- 1 31. The system of claim 24 wherein the destination computer generates
- 2 information in response to the browser request and transmits the generated
- 3 information to the intermediary service in a form of an http request.
- 1 32. The system of claim 24 wherein the destination computer comprises a
- 2 bridge adapter receiving an intermediary URL from the intermediary server and
- 3 sending a subsequent destination computer request to the intermediary URL.
- 1 33. The system of claim 32 wherein the bridge adapter is further configured to
- 2 receive a response from the intermediary service, the response including
- 3 multiple browser requests,
- 4 separate each of the multiple browser requests included in the response of
- 5 the intermediary service, and
- send a response to each of the multiple browser requests to the
- 7 intermediary service, the response being included into an http request.
- 1 34. A computer readable medium comprising instructions, which when
- 2 executed on a processor, cause the processor to perform a method for accessing a
- 3 destination computer behind a firewall, the method comprising:
- 4 receiving a request from a destination computer behind the firewall, the

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5	destination computer request demonstrating that the destination computer is
6	available to be accessed;
7	receiving a request from a remote browser to access the destination
8	computer;
9	associating the browser with the destination computer using the browser
0	request and a corresponding destination computer request; and
1	providing communication between the browser and the destination
2	computer, the communication being in a form acceptable to the firewall.
1	35. A computer readable medium comprising instructions, which when
2	executed on a processor, cause the processor to perform a method for providing
3	access to a destination computer behind a firewall, the method comprising:
4	sending destination computer requests to an intermediary service at
5	predetermined intervals, the destination computer requests demonstrating that
6	the destination computer is available to be accessed;
7	receiving a response from the intermediary service, the response
8	including a request of a remote browser to access the destination computer;
9	generating information in response to the browser request; and

sending the generated information to the intermediary service, the

generated information being sent in a form of a request.